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Indian Standard

DIMENSIONS FOR 8 mm TYPE S MOTION-PICTURE RAW STOCK FILM

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Indian Standard

DIMENSIONS FOR 8 mm TYPE S MOTION-PICTURE RAW STOCK FILM

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Indian Standard

DIMENSIONS FOR 8 mm TYPE S MOTION-PICTURE RAW STOCK FILM

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 26 June 1980, after the draft finalized by the Cinematographic Equipment Sectional Committee had been approved by the Electrotechnical Division Council.

0.2 This standard was formulated to standardize the raw stock cutting and perforating dimensions of 8 mm Type S motion-picture film.

0.3 In preparing this standard, assistance has been derived from ISO 1700-1972 'Cinematography — 8 mm Type S motion-picture raw stock film — Cutting and perforating dimensions', issued by the International Organization for Standardization (ISO).

0.4 For the purpose of deciding whether a particular requirement of this standard is compiled with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard specifies the raw stock cutting and perforating dimensions for 8 mm Type S motion-picture film.

2. DIMENSIONS AND CHARACTERISTICS

2.1 The dimensions and tolerances specified in Table 1 and as shown in Fig. 1 apply to raw stock safety film as defined in IS : 5431-1969† immediately after cutting and perforating.

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*Rules for rounding off numerical values (*revised*).

†Definition of motion-picture safety films.

TABLE 1 DIMENSIONS FOR TOLERANCES

(*Clause* 2.1)

DIMENSION	mm
A	7·975 ± 0·040
B	4·234 ± 0·010
C	0·914 ± 0·010
D	1·143 ± 0·010
R	0·13 ± 0·025
E	0·51 ± 0·05
*L**	423·4 ± 0·40

*Dimension *L* represents the length of any 100 consecutive perforation intervals.

2.2 If required by usage, the manufacturer should indicate the atmospheric conditions applied to the dimensional control at the time of cutting and perforating

3. UNIFORMITY OF PERFORATIONS

3.1 The dimensions given in this standard represent the practice of film manufacturers in that the dimensions and tolerances are for film stock immediately after perforation. The punches and dies themselves are made to tolerances considerably smaller than those given, but since film is a plastic material, the dimensions of the slit and perforated film stock never agree exactly with the dimensions of the slitters, punches and dies. Film can shrink or swell due to loss or gain in moisture or loss of solvent. These changes invariably result in changes in the dimensions during the life of the film. The change is generally uniform throughout a roll.

3.2 The uniformity of pitch, hole size and margin (dimensions *B*, *C*, *D* and *E*) is an important variable affecting steadiness. Variations in these dimensions, from roll to roll, are of little significance compared to variations from one perforation to the next. Actually, it is the maximum variation from one perforation to the next within a small group of consecutive perforations that is important.

4. EQUIPMENT DESIGN

4.1 It is the common tendency of film to expand when exposed to high relative humidity. Allowance should be made for this factor in equipment design and in no case should the equipment design fail to accommodate a film of 8·08 mm width under the conditions of use.

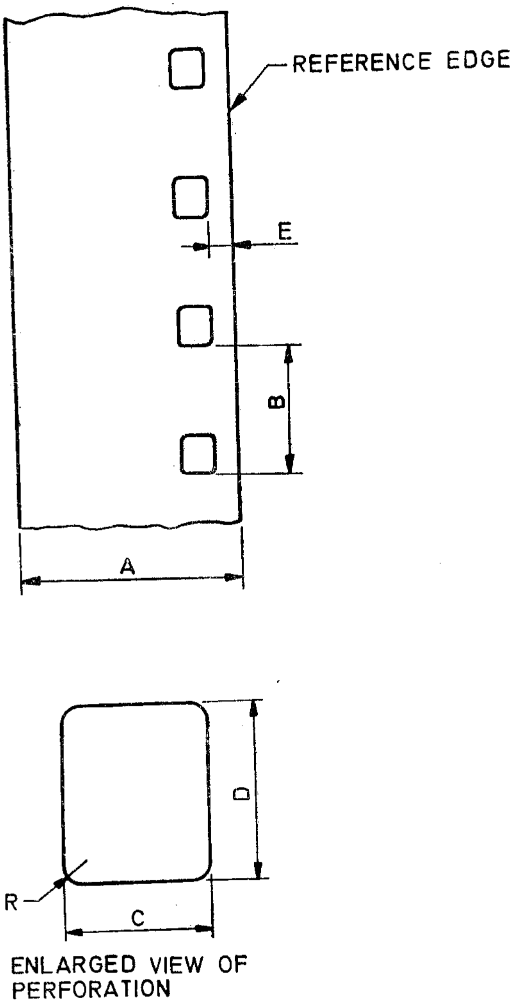

Fig. 1 Cutting And Perforating Dimensions

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

Quantity	*Unit*	*Symbol*
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Supplementary Units

Quantity	*Unit*	*Symbol*
Plane angle	radian	rad
Solid angle	steradian	sr

Derived Units

Quantity	*Unit*	*Symbol*	*Definition*
Force	newton	N	1 N = 1 kg. m/s^2
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m^2
Frequency	hertz	Hz	1 Hz = 1 c/s (s^{-1})
Electric conductance	siemens	S	1 S = 1 A/V
Electromotive force	volt	V	1 V = 1 W/A
Pressure, stress	pascal	Pa	1 Pa = 1 N/m^2